

NEW POLYURETHANES AND THEIR USE FOR THE THICKENING OF AQUEOUS SYSTEMS

ABSTRACT OF THE DISCLOSURE

The invention relates to water-soluble or water-dispersible polyurethane comprising a reaction product of

- A) a mixture of at least one polyether polyol a1) having an average functionality of ≥ 3 and at least one urethane group-containing polyether polyol a2) having an average functionality of ≥ 4 ,
- B) at least one monoisocyanate having 8 to 22 carbon atoms,
- C) at least one (cyclo)aliphatic and/or aromatic diisocyanate,
- D) optionally at least one monoalcohol having 8 to 22 carbon atoms, and
- G) optionally at least one polyisocyanate having an average functionality of > 2

wherein the starting NCO/OH equivalent ratio is between 0.5:1 to 1.2:1 and which are suitable as thickening agents for aqueous systems, having a particularly efficient thickening action, a process for their production and aqueous systems containing them.